

WHAT IS CLAIMED IS:

1. A light-emitting device comprising:  
a pixel portion comprising a plurality of pixels formed over a substrate; and  
5 a driver circuit formed over said substrate,  
wherein all semiconductor elements constituting said pixel portion and said  
driver circuit are n-channel type semiconductor elements.

2. A light-emitting device according to claim 1, wherein said substrate comprises  
10 a plastic substrate covered with a protective film.

3. A light-emitting device according to claim 1, wherein said semiconductor  
elements comprise thin-film transistors.

4. A light-emitting device according to claim 1, wherein said driver circuit  
15 comprises at least one of an EEMOS circuit and an EDMOS circuit.

↓  
n-channel  
TFTs

enhancement  
TFTs

5. A light-emitting device according to claim 1, wherein an electro-luminescent  
element is provided in each of said plurality of pixels.

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6. A light-emitting device according to claim 1, wherein said light-emitting  
device is one selected from the group consisting of a video camera, a digital camera, a  
mobile computer, a mobile telephone, and an audio.

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7. A light-emitting device comprising:  
a pixel portion formed over a substrate, said pixel portion comprising a switching  
element and a current control element; and  
a driver circuit comprising an inverter circuit formed over said substrate,

wherein all semiconductor elements constituting said switching element, said current control element, and said inverter circuit are n-channel type semiconductor elements.

5        8. A light-emitting device according to claim 7, wherein said substrate comprises a plastic substrate covered with a protective film.

9. A light-emitting device according to claim 7, wherein said semiconductor elements comprise thin-film transistors.

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10. A light-emitting device according to claim 7, wherein said driver circuit comprises at least one of an EEMOS circuit and an EDMOS circuit.

11. A light-emitting device according to claim 7, wherein an electro-luminescent  
15 element is provided in each of said plurality of pixels.

12. A light-emitting device according to claim 7, wherein said light-emitting device is one selected from the group consisting of a video camera, a digital camera, a mobile computer, a mobile telephone, and an audio.

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13. A light-emitting device comprising:

a pixel portion comprising a plurality of pixels formed over a substrate; and  
a driver circuit formed over said substrate,

wherein said driver circuit comprises a decoder circuit containing a plurality of

25 NAND circuits, and

wherein all semiconductor elements constituting said plurality of NAND circuit are n-channel type semiconductor elements.

14. A light-emitting device according to claim 13, wherein said semiconductor elements comprise n n-channel type semiconductor elements connected in series, and n n-channel type semiconductor elements connected in parallel.

5 15. A light-emitting device according to claim 13, wherein said substrate comprises a plastic substrate covered with a protective film.

16. A light-emitting device according to claim 13, wherein said semiconductor elements comprise thin-film transistors.

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17. A light-emitting device according to claim 13, wherein said light-emitting device is an electro-luminescent display device.

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18. A light-emitting device according to claim 13, wherein said light-emitting device is one selected from the group consisting of a video camera, a digital camera, a mobile computer, a mobile telephone, and an audio.

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19. A light-emitting device comprising:  
a pixel portion comprising a plurality of pixels formed over a substrate; and  
a driver circuit comprising a buffer circuit formed over said substrate,  
wherein all semiconductor elements constituting said buffer circuit are n-channel type semiconductor elements, and

wherein said buffer circuit comprises a first semiconductor element and a second semiconductor element connected in series with said first semiconductor element, and  
25 a gate of said second semiconductor element is connected to a drain of said first semiconductor element.

20. A light-emitting device according to claim 19, wherein said substrate

comprises a plastic substrate covered with a protective film.

21. A light-emitting device according to claim 19, wherein said semiconductor elements comprise thin-film transistors.

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22. A light-emitting device according to claim 19, wherein an electro-luminescent element is provided in each of said pixels.

23. A light-emitting device according to claim 19, wherein said light-emitting  
10 device is one selected from the group consisting of a video camera, a digital camera, a mobile computer, a mobile telephone, and an audio.

24. A light-emitting device comprising:  
15 a pixel portion comprising a plurality of pixels formed over a substrate; and  
a driver circuit comprising a decoder circuit formed over said substrate, said decoder circuit comprising a plurality of NAND circuits and a buffer circuit,  
wherein all semiconductor elements constituting said plurality of NAND circuits and said buffer circuit are n-channel thin film transistors, and  
wherein said buffer circuits comprises a first thin film transistor and a second  
20 thin film transistor connected in series with said first thin film transistor, and a gate of said second thin film transistor is connected to a drain of said first thin film transistor.

25. A light-emitting device according to claim 24, wherein said substrate  
25 comprises a plastic substrate covered with a protective film.

26. A light-emitting device according to claim 24, wherein an electro-luminescent element is provided in each of said pixels.

Sub  
a5

27. A light-emitting device according to claim 24, wherein said light-emitting device is one selected from the group consisting of a video camera, a digital camera, a mobile computer, a mobile telephone, and an audio.

5 28. A light-emitting device comprising:  
a pixel portion comprising a plurality of pixels formed over a substrate; and  
a driver circuit formed over said substrate,  
wherein said driver circuit comprises a shift register containing a plurality of flip-flop circuits formed by enhancement-type n-channel thin film transistors and depletion-  
10 type n-channel thin film transistors.

29. A light-emitting device according to claim 28, wherein said substrate comprises a plastic substrate covered with a protective film.

15 30. A light-emitting device according to claim 28, wherein an electro-luminescent element is provided in each of said pixels.

Sub  
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31. A light-emitting device according to claim 28, wherein said light-emitting device is one selected from the group consisting of a video camera, a digital camera, a  
20 mobile computer, a mobile telephone, and an audio.

32. A light-emitting device comprising:  
a pixel portion comprising a plurality of pixels formed over a substrate; and  
a driver circuit formed over said substrate,  
25 wherein said driver circuit comprises a shift register containing a plurality of flip-flop circuits formed by enhancement-type n-channel thin film transistors and depletion-type n-channel thin film transistors, and comprises a plurality of NAND circuits formed by enhancement-type n-channel thin film transistors and depletion-type n-channel thin

film transistors.

33. A light-emitting device according to claim 32, wherein said substrate comprises a plastic substrate covered with a protective film.

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34. A light-emitting device according to claim 32, wherein an electro-luminescent element is provided in each of said pixels.

Sub 27  
10 35. A light-emitting device according to claim 32, wherein said light-emitting device is one selected from the group consisting of a video camera, a digital camera, a mobile computer, a mobile telephone, and an audio.

36. A light-emitting device comprising:  
a pixel portion comprising a plurality of pixels formed over a substrate; and  
15 a driver circuit formed over said substrate,  
wherein each of said pixels comprises a plurality of enhancement-type n-channel thin film transistors and a plurality of depletion-type n-channel thin film transistors.

37. A light-emitting device according to claim 36, wherein said substrate  
20 comprises a plastic substrate covered with a protective film.

38. A light-emitting device according to claim 36, wherein said substrate comprises a plastic substrate covered with a protective film.

25 39. A light-emitting device according to claim 36, wherein an electro-luminescent element is provided in each of said pixels.

Sub 28  
40. A light-emitting device according to claim 36, wherein said light-emitting

device is one selected from the group consisting of a video camera, a digital camera, a mobile computer, a mobile telephone, and an audio.

41. A light-emitting device comprising:

5 a pixel portion comprising a plurality of pixels formed over a substrate; and  
a driver circuit formed over said substrate,

wherein each of said pixels comprises an SRAM formed by a plurality of enhancement-type n-channel thin film transistors and a plurality of depletion-type n-channel thin film transistors.

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42. A light-emitting device according to claim 41, wherein said substrate comprises a plastic substrate covered with a protective film.

43. A light-emitting device according to claim 41, wherein said substrate  
15 comprises a plastic substrate covered with a protective film.

44. A light-emitting device according to claim 41, wherein an electro-luminescent element is provided in each of said pixels.

20 45. A light-emitting device according to claim 41, wherein said light-emitting device is one selected from the group consisting of a video camera, a digital camera, a mobile computer, a mobile telephone, and an audio.